

Title (en)

Circuit arrangement, especially frequency converter

Title (de)

Schaltungseinrichtung, insbesondere Frequenzumrichter

Title (fr)

Agencement de circuit, notamment convertisseur de fréquence

Publication

EP 1786035 B1 20110921 (DE)

Application

EP 06023024 A 20061106

Priority

DE 102005053396 A 20051109

Abstract (en)

[origin: EP1786035A2] A circuit-structured power metal layer (22) contacts a contact edge portion (26) provided on peripheral portion (28) of a circuit board (14). A circuit module (12) is bent at an angle of 90 degree with the circuit board. A power semiconductor chip (24) contacts the circuit-structured power metal layer of the circuit module. A substrate (30) is secured to a heat sink (16) in such a way that the heat is dissipated.

IPC 8 full level

H01L 25/16 (2006.01); **H05K 1/14** (2006.01); **H05K 7/20** (2006.01)

CPC (source: EP KR US)

H01L 24/33 (2013.01 - EP US); **H01L 25/162** (2013.01 - EP US); **H01L 25/165** (2013.01 - EP US); **H05K 1/02** (2013.01 - KR); **H05K 1/147** (2013.01 - EP US); **H05K 7/20** (2013.01 - KR); **H05K 7/20445** (2013.01 - EP US); **H05K 7/209** (2013.01 - EP US); **H01L 23/3675** (2013.01 - EP US); **H01L 2924/1301** (2013.01 - EP US); **H01L 2924/13091** (2013.01 - EP US); **H05K 1/141** (2013.01 - EP US); **H05K 1/189** (2013.01 - EP US); **H05K 3/366** (2013.01 - EP US); **H05K 2201/0352** (2013.01 - EP US); **H05K 2201/049** (2013.01 - EP US); **H05K 2201/09736** (2013.01 - EP US); **H05K 2201/10674** (2013.01 - EP US); **Y10T 428/24777** (2015.01 - EP US); **Y10T 428/31678** (2015.04 - EP US)

C-Set (source: EP US)

1. **H01L 2924/13091** + **H01L 2924/00**
2. **H01L 2924/1301** + **H01L 2924/00**

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1786035 A2 20070516; **EP 1786035 A3 20100707**; **EP 1786035 B1 20110921**; AT E525749 T1 20111015; BR PI0604775 A 20070925; CN 1964614 A 20070516; CN 1964614 B 20120718; DE 102005053396 A1 20070516; DE 102005053396 B4 20100415; JP 2007134716 A 20070531; KR 20070049963 A 20070514; US 2007104926 A1 20070510

DOCDB simple family (application)

EP 06023024 A 20061106; AT 06023024 T 20061106; BR PI0604775 A 20061108; CN 200610136513 A 20061024; DE 102005053396 A 20051109; JP 2006302786 A 20061108; KR 20060107599 A 20061102; US 59508806 A 20061109